CIVIL-TECH CONSULTANTS AND ENGINEERS

An ISO 9001:2008 Certified Company

(Building, Geo-Tech & High way Material Testing Research Laboratory)

Engineering Project Consultants

BSCIC ISO 9001 REGISTERED JAS-ANZ

ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Improvements to drain at 208 SFS and surrounding area in Ward No.03, Attur, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Type of Road Surface	Minimum Number of Tests as per IRC norms	Number of Test done during execution	Percentage of Tests carried out as per IRC norms
I	II	III	IV
CIVIL WORKS	14	14	100%
TOTAL	**14**	**14**	**100%**

Civil-Tech Consultants & Engineers Bangalore

M/s. Civil-Tech Consultants & Engineers

Pooja K. L.

Authorised Signatory

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಜಿ ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೧೦೬

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79. Tele fax : 23223227, Cell : 93428 39190

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ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Improvements to drain at 208 SFS and surrounding area in Ward No.03, Attur, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Description	Quantity	Unit	Total Number of test to be carried out as per IRC	Actual Number of Test to be conducted	% Completed
I	II	III	IV	V	IV
1) PCC 1:3:6 a)Cement b)M-Sand c)Aggregate 40MM	28.05	Cum	3	3	100%
2)Steel - 8,10,12 &16 mm	3.21	Tonne	4	4	100%
3)M20 Cube	53.55	Cum	6	6	100%
4)Precast Slab - M25 - 100mm thick	153.00	Sqm	1	1	100%
TOTAL			**14**	**14**	**100%**

M/s. Civil-Tech Consultants & Engineers

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Building & Highway Material Testing Laboratory
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Job No.: CTCE/BBMP/GM/W.No.03/CSR-14g/CUBE/2022-23

10.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. G. Mahendra** (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore – 560086.
*** Name of the work**	:	Improvements to drain at 208 SFS and surrounding area in Ward No.03, Attur, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/YNK.D/EPMT-12/WO/68/2022-23 Dated : 11.01.2023
*** Sample ID**	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	10.03.2023
Report Issue Date	:	10.03.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.02.2023	10.03.2023	8.187	515.8	22.92
2	10.02.2023	10.03.2023	8.262	522.4	23.22
3	10.02.2023	10.03.2023	8.375	506.8	22.52

*Information is furnished by the Customer/Representative.

Note:

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⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

Job No.: CTCE/BBMP/GM/W.No.03/CSR-14g/CUBE/2022-23 10.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. G. Mahendra** (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore – 560086.
*** Name of the work**	:	Improvements to drain at 208 SFS and surrounding area in Ward No.03, Attur, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/YNK.D/EPMT-12/WO/68/2022-23 Dated : 11.01.2023
*** Sample ID**	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	10.03.2023
Report Issue Date	:	10.03.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.02.2023	10.03.2023	8.293	512.4	22.77
2	10.02.2023	10.03.2023	8.342	523.2	23.25
3	10.02.2023	10.03.2023	8.389	534.7	23.76

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BSCIC ISO 9001 REGISTERED JAS-ANZ

Job No.: CTCE/BBMP/GM/W.No.03/Steel/2022-23 24.01.2023

TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. G. Mahendra** (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore – 560086.
*** Name of work**	:	Improvements to drain at 208 SFS and surrounding area in Ward No.03, Attur, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/YNK.D/EPMT-12/WO/68/2022-23 Dated : 11.01.2023
*** Samples ID**	:	12 mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	24.01.2023
Report Issue Date	:	24.01.2023

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	522	564	13.25	O.K	O.K

*Information is furnished by the Customer/Representative.

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BSCIC ISO 9001 REGISTERED JAS-ANZ

Job No.: CTCE/BBMP/GM/W.No.03/Steel/2022-23 24.01.2023

TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. G. Mahendra** (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore – 560086.
*** Name of work**	:	Improvements to drain at 208 SFS and surrounding area in Ward No.03, Attur, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/YNK.D/EPMT-12/WO/68/2022-23 Dated : 11.01.2023
*** Samples ID**	:	16 mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	24.01.2023
Report Issue Date	:	24.01.2023

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	16	1.58	527	569	13.35	O.K	O.K

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/GM/W.No.03/CSR-14g/CUBE/2022-23 04.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. G. Mahendra** (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore – 560086.
*** Name of the work**	:	Improvements to drain at 208 SFS and surrounding area in Ward No.03, Attur, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/YNK.D/EPMT-12/WO/68/2022-23 Dated : 11.01.2023
*** Sample ID**	:	RCC Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	04.03.2023
Report Issue Date	:	04.03.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.02.2023	04.03.2023	8.224	485.2	21.56
2	04.02.2023	04.03.2023	8.293	492.8	21.90
3	04.02.2023	04.03.2023	8.312	503.7	22.39

*Information is furnished by the Customer/Representative.

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* **Name of the work**	:	Improvements to drain at 208 SFS and surrounding area in Ward No.03, Attur, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* **Reference**	:	BBMP/EE/YNK.D/EPMT-12/WO/68/2022-23 Dated : 11.01.2023
* **Sample ID**	:	RCC Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* **Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	04.03.2023
Report Issue Date	:	04.03.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.02.2023	04.03.2023	8.284	511.2	22.72
2	04.02.2023	04.03.2023	8.315	520.7	23.14
3	04.02.2023	04.03.2023	8.221	498.5	22.16

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*** Sample ID**	:	RCC Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	04.03.2023
Report Issue Date	:	04.03.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.02.2023	04.03.2023	8.347	528.7	23.50
2	04.02.2023	04.03.2023	8.263	514.3	22.86
3	04.02.2023	04.03.2023	8.185	502.6	22.34

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Job No.: CTCE/BBMP/GM/W.No.03/CSR-14g/CUBE/2022-23 10.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. G. Mahendra** (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore – 560086.
*** Name of the work**	:	Improvements to drain at 208 SFS and surrounding area in Ward No.03, Attur, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/YNK.D/EPMT-12/WO/68/2022-23 Dated : 11.01.2023
*** Sample ID**	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	10.03.2023
Report Issue Date	:	10.03.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.02.2023	10.03.2023	8.363	517.2	22.99
2	10.02.2023	10.03.2023	8.282	501.6	22.29
3	10.02.2023	10.03.2023	8.310	522.8	23.24

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BSCIC ISO 9001 REGISTERED JAS-ANZ

Job No.: CTCE/BBMP/GM/W.No.03/Steel/2022-23 24.01.2023

TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. G. Mahendra** (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore – 560086.
*** Name of work**	:	Improvements to drain at 208 SFS and surrounding area in Ward No.03, Attur, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/YNK.D/EPMT-12/WO/68/2022-23 Dated : 11.01.2023
*** Samples ID**	:	10 mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	24.01.2023
Report Issue Date	:	24.01.2023

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	516	557	13.15	O.K	O.K

*Information is furnished by the Customer/Representative.

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Authorised Signatory

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

Job No.: CTCE/BBMP/GM/W.No.03/CSR-14g/SAND-Gradation/2022-23 20.01.2023

TEST REPORT SIEVE ANALYSIS OF FINE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. G. Mahendra** (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore – 560086.
*** Name of Work**	:	Improvements to drain at 208 SFS and surrounding area in Ward No.03, Attur, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/YNK.D/EPMT-12/WO/68/2022-23 Dated : 11.01.2023
*** Sample ID**	:	Fine Aggregates (Manufactured Sand)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2021)
Sample Received On	:	18.01.2023
Date of Testing	:	20.01.2023
Report Issue Date	:	20.01.2023

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.80	90-100	90-100	90-100	95-100
2.36	79.30	60-95	75-100	85-100	95-100
1.18	58.10	30-70	55-90	75-100	90-100
600 Micron	37.30	15-34	35-59	60-79	80-100
300 Micron	17.50	5-20	8-30	12-40	15-50
150 Micron	7.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Job No.: CTCE/BBMP/GM/W.No.03/CSR-14g/CEMENT/2022-23 Date: 20.01.2023

TEST REPORT

*** Customer**	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. G. Mahendra** (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore – 560086.
*** Name of Work**	:	Improvements to drain at 208 SFS and surrounding area in Ward No.03, Attur, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/YNK.D/EPMT-12/WO/68/2022-23 Dated : 11.01.2023
*** Sample ID**	:	Cement
Sample Received on	:	18.01.2023
Period of Testing	:	18.01.2023 to 20.01.2023
Report Issue Date	:	20.01.2023

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015 (2020)
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	185 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	375 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1.00 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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Civil-Tech Consultants & Engineers Bangalore

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